

Applicant: Oscar C. Miramontes  
Serial No.: 10/814,708  
Filing Date: March 31, 2004  
Docket No.: ZIL-574

**Amendments to the Specification:**

Please replace paragraphs [0025] and [0026] with the following replacement paragraphs.

[0025] Remote control device 11 includes an RFID reader 15 that includes a coupling element 16. Remote control device 11 controls DVD player 12 by transmitting operational signals containing codeset data from a first codeset. The codeset data are associated with DVD player 12. An operational signal 17 contains codeset key data corresponding to a function of DVD player 12, such as "play." Other functions that remote control device 11 controls include, for example, power on, volume up, volume down, mute, channel advance, channel back, cursor up, cursor down, cursor right, cursor left, menu, select, record, stop, forward, back and pause. Remote control device 11 includes an IR transmitter 18. Operational signal 17 is transmitted in an infrared (IR) channel from IR transmitter 18 to an IR receiver 19 on DVD player 12. In other embodiments, remote control device 11 has a radio frequency (RF) transmitter that transmits operational signal 17 over an RF channel to an RF receiver on electronic consumer device 12. For additional details on transmitting an operational signal containing codeset information over an RF channel, see U.S. Patent Application serial number 10/737,029 entitled "Relaying Key Code Signals Through a Remote Control Device," filed on December 16, 2003, which is ~~herein~~ incorporated herein by reference.

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[0026] Before remote control device 11 transmits operational signal 17, however, remote control device 11 is programmed to generate codeset key data corresponding to the first codeset, which controls DVD player 12. In a first example, remote control device 11 includes a memory. Codeset data for multiple codesets, including the first codeset, are stored in the memory. The codeset data for each codeset include codeset information, as well as tables of modulation, timing and framing protocols. Codeset information includes a protocol number of each particular codeset, key flags, codeset key data, a system code, and format and size information relating to the system code and key data. The protocol number for the first codeset, which controls DVD player 12, is a pointer that points to the protocol table that contains the modulation, timing and framing protocol used to modulate the key data and the system code onto operational signal 17. The digital values of the system code and the key data are modulated onto operational signal 17 using a modulation technique (for example, pulse width modulation) determined by the protocol table that is pointed to. For additional details on the structure of codeset data, see U.S. Patent Application serial number 10/777,023 entitled "Interactive Web-Based Codeset Selection and Development Tool," filed on February 10, 2004, which is ~~herein~~incorporated herein by reference.

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Please replace paragraph [0029] with the following replacement paragraph.

[0029] Initially, a consumer places remote control device 11 in close proximity (for example, six centimeters) to the RFID reader 13 within electronic consumer device 12 and presses a program key on remote control device 11. Pressing the program key causes a frequency generator within remote control device 11 to generate an oscillating current in coupling element 16. The oscillating current may, for example, oscillate at 125 kHz. The oscillating current in coupling element 16 generates an alternating magnetic field 26. Remote control device 11 (including the frequency generator within it) is battery-powered and the energy of the alternating magnetic field 26 comes from the battery. In this embodiment, coupling element 16 is a coil of lacquered copper wire. The diameter of the coil is thirty-five mm, and the diameter of the copper wire is 0.223 mm. There are 85 turns in the coil. For additional details on the structure of an RFID reader, see the data sheet entitled "HTCM400 HITAG core module hardware," by Philips Semiconductors, dated October 4, 2001, which is ~~herein-incorporated~~ herein by reference.

Please replace paragraph [0031] with the following replacement paragraph.

[0031] Figure 3 is a simplified block diagram of remote control device 11 and RFID transponder 13. Remote control device 11 includes RFID reader 15, IR transmitter 18, a

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battery 27, a microcontroller 28 and a memory 29. IR transmitter 18 is a light-emitting diode. Memory 29 is an EEPROM memory. Battery 27 provides a supply voltage of between two to five volts. In first step 21, energy from battery 27 generates alternating magnetic field 26 and is conveyed from RFID reader ~~46~~15 to RFID transponder 13 in DVD player 12.

Please replace paragraph [0035] with the following replacement paragraph.

[0035] Figure 5 shows the circuitry of RFID transponder module 35 of RFID transponder 13 in more detail. RFID transponder module 35 includes control logic 45, a rectifier 46, a modulator 47, a demodulator 48 and EEPROM memory 49. EEPROM memory 49 has a 2048-bit capacity. For additional details on the structure of an RFID transponder, see the product specification entitled "HITAG 1 stick transponder HT1DC20S30," by Philips Semiconductors, dated September 24, 2001, which is ~~herein~~-incorporated herein by reference.